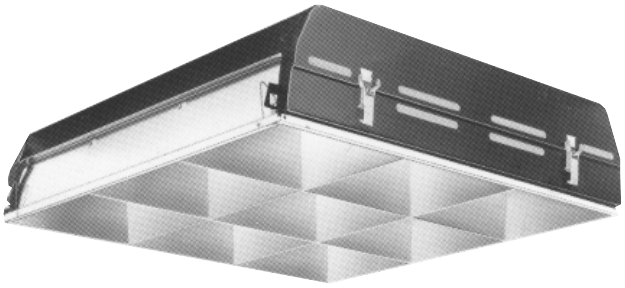
Paralyte 2424 **PLA2G9LS26U**

2' x 2' Recessed Fluorescent, 3-1/8" Deep 9 Cell Parabolic Louver, Static and Air Return, 2 Lamp, T8 or T12

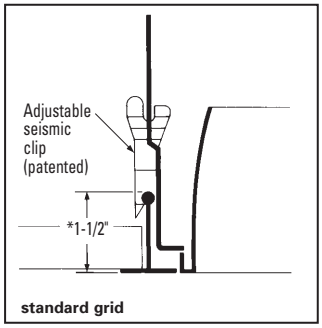
Features

- 23" x 23" louver.
- Efficiency 68.7%.
- One fixture fits 50 different G type and T type ceiling systems.
- Only 5 1/2" deep housing.
- Automatic engaging adjustable seismic clips.
- Pre-anodized aluminum vertical grain parabolic louver.
- 3 1/8" deep louver.
- Low iridescence semi-specular aluminum, standard.
- Spring-loaded latches.
- Protective film dust guard.
- UL-Listed twin knockout access plate.
- Not for continuous row mounting.

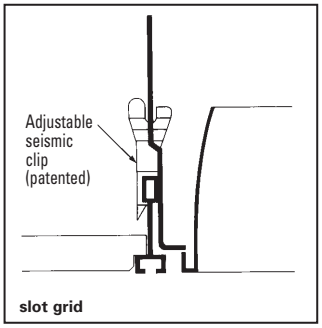


Mounting Methods

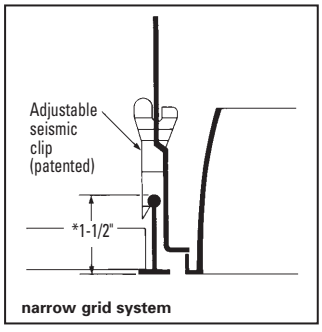
*If less than 1 1/2", STC spacer is required, 2 each end.



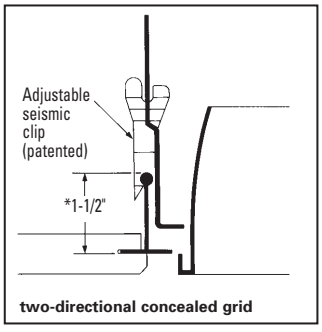
standard grid



slot grid

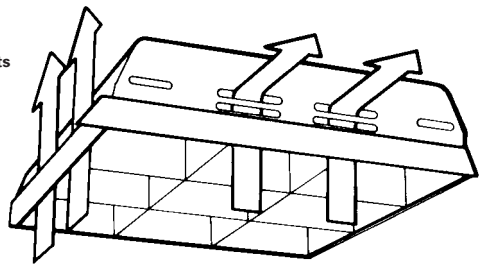


narrow grid system

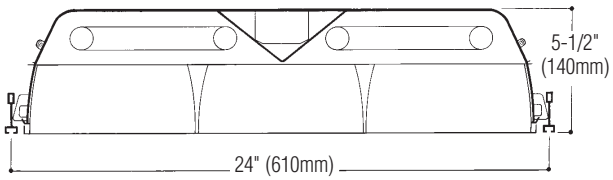


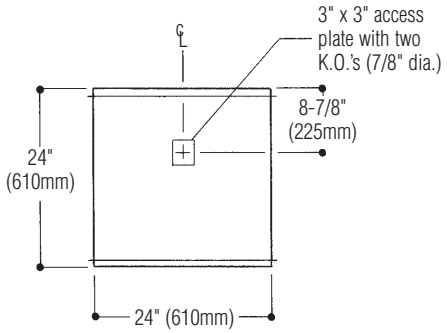
two-directional concealed grid

air return capabilities exceed standard requirements (see Folio G50-50)



Dimensions





NOTE: Fixtures may be used for static or air return applications.

Job Information **Type:**

Job Name:

Cat. No.:

Lamp(s):

Volts/Ballast:

Lightolier a Genlyte Thomas Company www.lightolier.com
Technical Information: (978) 657-7600 • Fax (978) 658-0595
631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
We reserve the right to change details of design, materials and finish.
© 2003 Genlyte Thomas Group LLC (Lightolier Division)

LIGHTOLIER®

Paralyte 2424 **PLA2G9LS26U**

2' x 2' Recessed Fluorescent, 3-1/8" Deep 9 Cell Parabolic Louver, Static and Air Return, 2 Lamp, T8 or T12

Photometry

Model No. PLA2G9LS26U120SO

itl boulder
THE LIGHT CENTER OF THE INDUSTRY
FAX (303) 449-5274
INDEPENDENT TESTING LABORATORIES, INC. • 3366 LONGHORN ROAD, BOULDER, COLORADO 80302 • PHONE (303) 442-1255

REPORT NUMBER: ITL40489 DATE: 5-12-1993
PREPARED FOR: LIGHTOLIER
CATALOG NUMBER: PLA2G9LS26U120SO
LUMINAIRE: FABRICATED METAL HOUSING, WHITE PAINTED INTERIOR, 9-CELL SEMI-SPECULAR PARABOLIC ALUMINUM LOUVER.
LAMPS: TWO FB31T8/TL741/6 FLUORESCENTS, EACH RATED 2650 LUMENS.
BALLAST: ADVANCE REL-2P32-RH-TP
MOUNTING: RECESSED
TOTAL INPUT WATTS= 58.0 AT 120.0 VOLTS
THE 0 DEGREE PLANE IS OPPOSITE THE SOCKETS.

CANDELA DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0	FLUX
0	1481	1481	1481	1481	1481	
5	1468	1474	1482	1486	1482	141
15	1382	1412	1416	1439	1416	399
25	1247	1231	1320	1280	1306	592
35	1092	1100	1224	1173	1152	720
45	924	912	1066	973	938	739
55	689	732	924	756	644	680
65	367	368	389	342	259	332
75	29	28	28	25	25	32
85	4	5	6	4	4	6
90	0	0	0	0	0	

ZONAL LUMEN SUMMARY

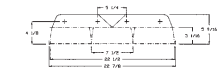
ZONE	LUMENS	%LAMP	%FIXT
0- 30	1133	21.4	31.1
0- 40	1853	35.0	50.9
0- 60	3272	61.7	89.9
0- 90	3642	68.7	100.0
90-180	0	0.0	0.0
0-180	3642	68.7	100.0

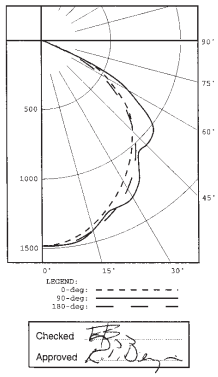
TOTAL LUMINAIRE EFFICIENCY = 68.7 %
TOTAL REFLECTANCE OF PAINT = 90.6 %
CIE TYPE - DIRECT

PLANE	: 0-DEG	90-DEG	180-DEG
SPACING CRITERIA	: 1.2	1.3	1.2
SHIELDING ANGLES	: 23	23	
PLANE	: 0-DEG	90-DEG	
LUMINOUS LENGTH	:22.500	22.500	

LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 90-DEG	AVERAGE 180-DEG
45	3999.	4614.	4060.
55	3677.	4930.	3436.
65	2658.	2817.	1876.
75	343.	331.	296.
85	140.	211.	140.





Checked
Approved

THIS REPORT IS BASED ON PUBLISHED INDUSTRY PROCEDURES • FIELD PERFORMANCE MAY VARY FROM LABORATORY PERFORMANCE.

LER = FP - 58.9 IW - 58.0 BF - 0.87
Comparative yearly lighting energy cost per 1000 lumens = $4.07

coefficients of utilization — zonal cavity method (effective floor cavity reflectance 0.20)

RF		20			20			20		
RC		80			50			30		
RW		70	50	30	50	30	10	50	30	10
room cavity ratio	1	76	73	71	69	67	65	66	65	63
	2	70	65	61	61	58	56	59	57	54
	3	64	58	53	55	51	47	53	49	47
	4	59	51	46	49	44	41	47	43	40
	5	54	46	40	44	39	35	43	38	35
	6	50	42	36	40	35	31	39	34	31
	7	47	38	32	36	31	28	35	31	27
	8	43	34	29	33	28	25	32	28	25
	9	40	32	26	30	26	22	30	25	22
	10	38	29	24	28	23	20	27	23	20

visual comfort probability (rated lumens per lamp 3150.)

room size		luminaries lengthwise: ceiling height				luminaries crosswise: ceiling height			
W	L	8.5	10.0	13.0	16.0	8.5	10.0	13.0	16.0
20	20	71	66	69	79	68	63	63	76
20	30	74	70	66	68	71	67	62	61
20	40	77	73	70	68	74	70	66	63
20	60	79	75	73	71	76	72	69	66
30	20	76	70	67	76	74	68	63	74
30	30	79	73	66	65	76	71	63	60
30	40	81	75	69	66	78	73	67	62
30	60	82	77	72	68	80	75	70	65
30	80	84	79	74	71	81	77	72	68
40	20	79	73	71	75	76	71	67	73
40	30	81	76	69	64	79	74	67	61
40	40	83	78	72	65	81	76	70	63
40	60	84	80	74	68	82	78	72	66
40	80	85	81	76	70	83	79	74	68
40	100	86	82	78	73	84	80	76	70
60	30	82	78	72	67	80	76	70	63
60	40	84	80	74	67	82	78	73	65
60	60	85	81	76	70	83	80	75	68
60	80	86	83	78	72	84	81	77	70
60	100	87	84	80	74	85	82	78	72
100	40	84	80	76	71	82	78	75	69
100	60	86	82	78	73	84	80	77	71
100	80	87	84	80	75	85	82	79	74
100	100	88	85	81	77	86	83	80	75

Ordering Information

Explanation of Catalog Number. Example: PLA2G9LS26U120SOGLR

PL	A	2	G	9		S	2	6U			
Paralyte 2424: 3-1/8" Deep Parabolic Precision Contoured Pre-anodized Aluminum Louver	**Body Style:** **A**=Air Handling /Static	**Fixture Width**	**Ceiling Type:** **G**=Grid (lay-in T-bar)	**Number of Cells**	**Louver Finish:** **L** = Low Iridescence Semi-specular (standard) **W**= White Paint	**Ballast Cover:** **S**=Single V Reflector	**Lamp Quantity**	**Lamp/ Fixture Length:** 6" U Lamp T8 or T12 (Nominal 24")	**Voltage:** 120 or 277	**Ballast Type:** 1–2 Lamp Mag. T12 **LE**; 1–2 Lamp Elec. T8 LOL T8 Dimming <20THD **SO*** **PS**; <10THD **HI*** – ; *Instant Start Standard	**Options:** Add appropriate suffix to catalog no, ie: (GLR)

Other dimming options. Consult factory.

Options/Accessories

Prewiring: 3/8" factory prewired cable (three no. 18 AWG leads, 6' long). Suffix: **FF6**, (Four no. 18 AWG leads, 6' long). Suffix: **FF14**.
Fusing: Internal fast-blow fusing. Suffix: **GLR**.
Internal slow-blow fusing Suffix: **GMF**.
Fluorescent Emergency Lighting System: Factory-installed emergency power battery pack with charger and inverter, concealed in fixture channel. Operates one fluorescent lamp at reduced light output for 90 minutes. Suffix: **EM**.
Radio Interference Filter: 120 or 277 volt, 50 or 60 Hz.
One per fixture. Suffix: **R**. One per ballast. Suffix: **B**.
Electrical Options: Special wiring, fusing or dimming ballasts and installed lamps are available, consult your Lightolier representative or factory.
T-Bar Spacer: If T-bar is less than 1-1/2" deep, order Catalog Number: **STC**. 2 each end is required.

Specifications

Performance: In an installation of 2 lamp 31W luminaires in a room cavity ratio of 1, with reflectance of 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than 73. To prevent glare the VCP shall not be less than 83 either lengthwise or crosswise (at 100fc level) and the average brightness at 65° shall not exceed 2817 candelas per square meter. To control veiling reflections, luminaire output in the 30°-90° zone shall not be less than 68.9%.

Specifications (continued)

Air Return: Designed to provide optimum air return. Air is returned through the lamp compartment for all ceiling systems and direct to plenum through slots in slot grid and narrow grid ceiling systems.
Materials: Chassis parts are die-formed code gauge cold rolled steel.
Housing is embossed for rigidity with all edges turned up for safe handling.
Louver is pre-anodized aluminum (Coilzak® or equal).
Finish: Louver–semi-specular anodized low iridescence, vertical grain reflector sheet. **Cavity**–white baked polyester minimum 86% refLectance. Phosphate undercoating. **Chassis exterior**–black baked polyester enamel.
Electrical: Thermally protected class "P" ballast C.B.M. approved, non PCB. If K.O.is within 3" of ballast, use wire suitable for at least 90°.
Labels: I.B.E.W./UL and ULc Listed.

Job Information **Type:**

Lightolier a Genlyte Thomas Company www.lightolier.com
Technical Information: (978) 657-7600 • Fax (978) 658-0595
631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
We reserve the right to change details of design, materials and finish.
© 2003 Genlyte Thomas Group LLC (Lightolier Division)

LIGHTOLIER®